



Australian Government

MARH003 Manage and maintain a navigational watch on board vessels up to 80 metres

Release: 1

MARH003 Manage and maintain a navigational watch on board vessels up to 80 metres

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to apply the recommended principles to be observed in managing and maintaining a navigational watch on board vessels up to 80 metres.

This unit applies to people working in the maritime industry on a range of vessels up to 80 metres.

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

H – Navigation

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Maintain watch on bridge when berthed or anchored	1.1	Checks and inspections are scheduled to comply with organisational procedures and regulatory requirements
	1.2	Appropriate action is taken in the event of irregularities or abnormal conditions to maximise the safety and integrity of vessel
	1.3	Restrictions on access to vessel by non-authorised persons are followed according to organisational procedures and regulatory requirements
	1.4	Internal and external communications systems are used

- according to organisational procedures
- 2 Maintain watch on bridge when at sea**
- 2.1 Proper watch is maintained at all times according to organisational procedures and regulatory requirements
- 2.2 Lights, shapes and sound signals are correctly recognised and acted upon
- 2.3 Frequency and extent of monitoring traffic, vessel and environment are scheduled to conform with organisational procedures and regulatory requirements
- 2.4 Wheelhouse communication is maintained with other crew members on matters relevant to safety and integrity of vessel
- 2.5 Clear and concise wheelhouse communications are maintained and clarification is sought from or given to other crew members when watch information or instructions are not clearly understood
- 2.6 Internal and external communications systems are used according to organisational procedures
- 2.7 Log and record books are maintained according to regulatory requirements and organisational procedures
- 3 Respond to potential emergency situations**
- 3.1 Watchkeeping problems and emergency situations are promptly reported to crew according to organisational procedures
- 3.2 Distress signals are recognised and acted upon
- 3.3 Appropriate action is taken to handle watchkeeping problems and emergency situations according to organisational procedures and regulatory requirements
- 4 Manage crew performing watchkeeping and lookout duties**
- 4.1 Watchkeeping schedule is developed with due regard to crew qualifications, experience and organisational procedures
- 4.2 Instructions are provided on watchkeeping and lookout requirements in relation to monitoring traffic, vessel and environment
- 4.3 Clear and concise roles and responsibilities of watchkeeping team are established
- 4.4 Effective communication is maintained with crew on matters relevant to safety and integrity of vessel
- 4.5 Fatigue management strategies are correctly applied in

allocating watchkeeping and lookout duties

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Scheduled includes one or more of the following:

- coverage
- frequency
- timing

Irregularities or abnormal conditions include one or more of the following:

- fog and restricted visibility
- heavy weather, including cyclones

Lights, shapes and sound signals include:

- alternative power source for lights
- day time shapes for a vessel
- emergency lights
- means of making sound signals for a vessel up to 80 metres
- navigation lights

Wheelhouse communication includes one or more of the following:

- verbal instruction relating to watchkeeping duties
- written Master instructions

Internal and external communications systems include one or more of the following:

- global maritime distress and safety system (GMDSS) equipment
- handheld radios
- international single letter code flags
- MF and HF radios
- VHF radios

Watchkeeping problems include one or more of the following:

- dragging of anchor
- failure of bridge equipment, steering equipment, navigational lights
- loss of main engines or propulsion controls
- loss of mooring lines or winches when berthing
- machinery and bilge alarms

Emergency situations include one or more of the following:

- cargo shift
- collision
- fire
- fouled hawse
- grounding
- injured crew or passenger
- loss of watertight integrity
- missing crew or passenger
- person overboard
- reception of a distress signal
- retrieval of survivors from the water
- synchronous rolling

Fatigue management strategies must include:

- maintaining personal fitness and health and appropriate dietary habits
- observing appropriate hours of duty in a 24 hour period
- observing policy concerning alcohol/drug use prior to watchkeeping duties
- recognising symptoms of fatigue

Unit Mapping Information

This is a new unit. This unit is equivalent to MARH3002A Manage and maintain a navigational watch on board vessels up to 80 metres.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

Assessment Requirements for MARH003 Manage and maintain a navigational watch on board vessels up to 80 metres

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- communicating effectively with others about watchkeeping issues, arrangements and requirements
- identifying and solving problems that may arise during watchkeeping duties
- interpreting and implementing procedures relevant to the role and responsibilities of watchkeeper
- maintaining situational awareness
- monitoring and anticipating hazards and risks that may arise during watchkeeping duties and taking appropriate action
- selecting and using appropriate internal and external communications equipment during watchkeeping duties
- using bridge equipment in normal and emergency situations on vessels up to 80 metres.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- application and intent of the International Ship and Port Facility Security (ISPS) Code as it applies to Australian coastal vessels and ports
- bridge instrumentation, controls and alarms relevant to the function of watchkeeper
- content, application and intent of the International Regulations for Preventing Collisions at Sea
- fatigue management principles and techniques
- functions and responsibilities of the wheelhouse team on board a vessel
- general provisions on ship routing
- International Association of Lighthouse Authorities (IALA) buoyage system A
- International Aeronautical and Maritime Search and Rescue Manual (IAMSAR)
- International Code of Signals
- maritime communication techniques on board a vessel
- navigational hazards and implications for watchkeeping
- procedures for the relief, maintenance and handover of a watch
- procedures for the use of internal communications and alarm systems

- relevant sections of state and territory marine regulations, National Standard for Commercial Vessels (NSCV) and Uniform Shipping Laws (USL) Code
- typical watchkeeping problems and emergency situations, and appropriate actions and solutions
- vessel traffic services
- wheelhouse procedures on board a vessel
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

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